

Attorney Docket No. 5649-1277

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re: Hwang-hee Lee et al.

Serial No.: To Be Assigned

Filed: Concurrently Herewith

For: **METHODS OF MANUFACTURING SEMICONDUCTOR DEVICES HAVING  
A RUTHENIUM LAYER USING VIA ATOMIC LAYER DEPOSITION AND  
ASSOCIATED APPARATUS AND DEVICES**

Date: March 16, 2004

Mail Stop PATENT APPLICATION

Commissioner for Patents

P. O. Box 1450

Alexandria, VA 22313-1450

**PRELIMINARY AMENDMENT**

Sir:

Prior to the examination of the above-referenced application, please enter the following amendments below. Applicants provide the present Preliminary Amendment pursuant to the rules stated in revised 37 C.F.R. 1.121 that became effective on July 30, 2003.

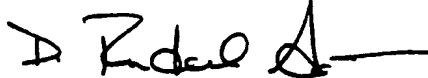
In re: Kwang-hee Lee  
Serial No.: To Be Assigned  
Filed: Concurrently Herewith  
Page 2 of 2

**In the Title:**

Please replace the Title on page 1 of the specification with the following amended paragraph:

**-- METHODS OF MANUFACTURING SEMICONDUCTOR DEVICES  
HAVING A RUTHENIUM LAYER USING VIA ATOMIC LAYER DEPOSITION  
AND ASSOCIATED APPARATUS AND DEVICES --.**

Respectfully submitted,

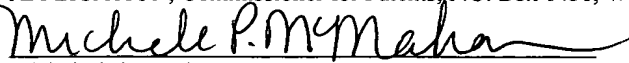


D. Randal Ayers  
Registration No. 40,493

USPTO Customer No. 20792  
Myers Bigel Sibley & Sajovec, P.A.  
Post Office Box 37428  
Raleigh, North Carolina 27627  
Telephone: (919) 854-1400  
Facsimile: (919) 854-1401  
Our File No. 5649-1277

"Express Mail" mailing label number EV 381444019 US  
Date of Deposit: March 16, 2004

I hereby certify that this paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to MAIL STOP PATENT APPLICATION, Commissioner for Patents, P.O. Box 1450, Washington, DC 20231.

  
Michele P. McMahan